



the leader in CO2 refrigeration technology for heavy duty applications



Site-Built CO₂ Cascade Refrigeration Systems

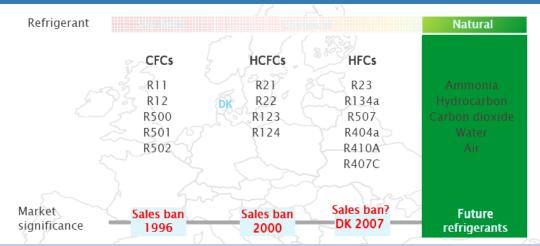


CO₂ Ammonia Freeze Packages (CAFP)

Turn-Key, Equipment Supply, Engineering, Supervision and After Market Support

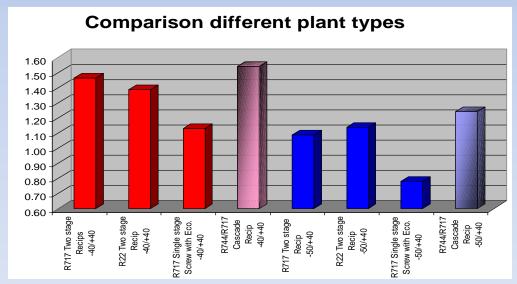
- "Green Field" Projects Total Solution Provider
- Upgrade of Exiting Refrigeration Plants

CO2 Cascade Refrigeration Systems - System of the Present and the Future....



- CO₂ is a natural non-flammable refrigerant
- Major exposure to CO2 does not damage products in freezers and cold storages
- Plant designs with no ammonia (toxic gas) in work, process or storage areas

- Less power consumed
- Lower cost of equipment & installation
- Easier serviceability for many plant designs and lower cost of spare parts

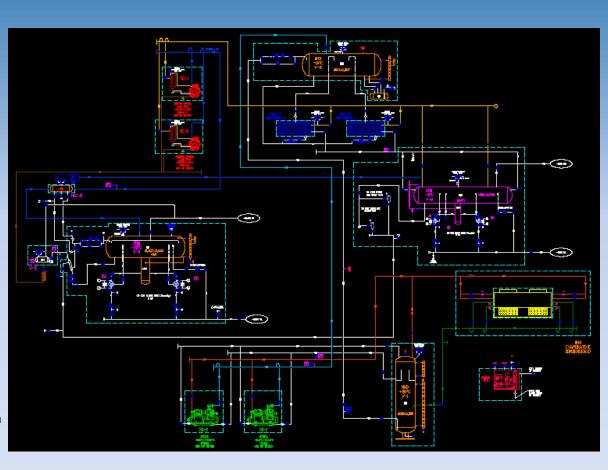


◆ Always positive system pressure → Lower contamination with air and moisture



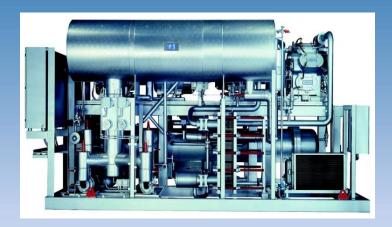
OUR TYPICAL SITE-BUILT CO, AMMONIA CASCADE REFRIGERATION SYSTEM

- CO₂ compressor packages (complete)
- Ammonia compressor packages (complete)
- Ammonia receiver (complete on skid)
- Automatic air-purger (loose)
- Ammonia evaporative condenser (loose)
- Surge drum for CO₂ condensers (complete on skid)
- CO₂ condensers (loose)
- Intermediate temperature CO₂ pump recirculation package (complete on skid)
- Low-temperature CO₂ pump recirculation package (complete on skid)
- Automatic oil rectifier system for CO2 compressors (packaged partly)
- Suction super-heater for CO2 compressors
- MCC and Control System
- Complete lot of valves & Controls for field installation
- Air coolers, blast / contact freezer, IQF freezers, etc.
- Planning, Design & Engineering
- Comprehensive documentation including installation, operation and maintenance instructions, test certificates, certified U1/U3 reports, etc.
- Specialist Engineer for supervision of installation & start-up



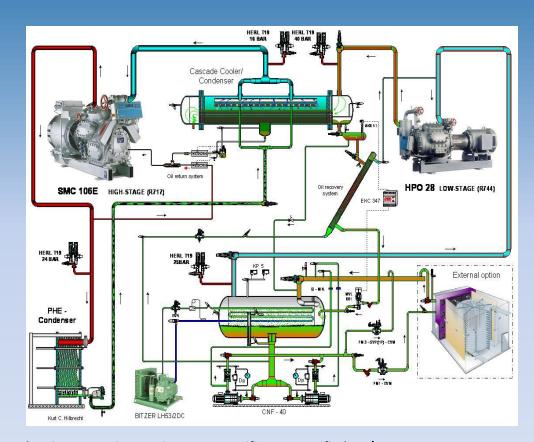


THE CO₂ AMMONIA FREEZE PACKAGE (CAFP)



- Very small foot-print
- Ideal for freezing applications; blast freezing, contact freezing,
 IQF-freezers, ice-cream freezers, etc.

Includes



- Comprehensive documentation including installation, operation and maintenance instructions, test certificates, certified U1/U3 reports, etc.
- Specialist Engineer for start-up

REFERENCE LIST - CO2 (R744) INSTALLATIONS								
			Low temperature		Medium Temperature		High Temperature	
YEAR	LOCATION	APPLICATION	Capacity kWr	Temp. degC	Capacity kWr	Temp. degC	Capacity kWr	Temp. degC
2004	Agger Fish, Brooklyn, NY	Plate Freezers	176	-53				
2005	US Cold Storage Ph1, Bethlehem, PA	Storage			1,020	-34	580	-7
2005	Flint River Services, Savannah, GA	Storage			528	-28	528	-3
2006	Lincoln Cold Storage, Lincoln, NE	Plate Freezers	1,421	-50				
2006	US Cold Storage Ph1, Fresno, CA	Storage / Blast Freezers	774	-50	1,583	-32	739	-7
2006	US Cold Storage Ph2, Bethlehem, PA	Storage			1,055	-34	545	-7
2007	US Cold Storage Ph1, Lake City, FL	Storage			1,319	-32	440	-7
2007	US Cold Storage Ph3, Bethlehem, PA	Storage			1,055	-34	457	-7
2007	Border Cold Storge, Pharr, TX	Storage					1,125	-7
2008	US Cold Storage Ph1, Hazelton, PA	Storage			1,220	-32	440	-7
2008	Unitherm Food Systems, Bristow, OK	IQF Freezer	88	-51				
2008	Circle Foods, San Diego, CA	Storage / IQF Freezers	1,470	-39	211	-23		
2008	US Cold Storage Ph1, Lebanon, IN	Storage			1,456	-34	510	-7
2008	US Cold Storage Ph1, Turlock, CA	Storage			1,435	-34	503	-7
2009	US Cold Storage Ph2, Fresno, CA	Storage / Blast Freezers	190	-50	1,023	-32	591	-7
2010	Frialsa, Mexico City, Mexico	Storage / Blast Freezers			1,825	-32	91	-7
2010	US Cold Storage Ph2, Hazelton, PA	Storage			816	-32	211	-7
2010	P.A.T.E, Tepatitlan, Mexico	Blaster Freezers			1,055	-40		
2010	Wegmans Food Markets, Pottsville, PA	Storage					3,517	-7
2010	Marigold, Thailand (CAFP-400)	IQF Freezers	400	-50				